

Sugar Branch (1029 & 1030)

Use Attainability Analysis



**Boone County Regional Sewer District
1314 North 7th Street
Columbia, MO 65201-3902**

**Prepared by
Barr Engineering Company
July 2005**

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Use Attainability Analysis

Boone County Regional Sewer District

1314 North 7th Street

Columbia, MO 65201-3902

July 2005



Barr Engineering Company
3236 Emerald Lane
Jefferson City, MO 65109
Phone: (573) 636-5331
Fax: (573) 636-5323

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet A - Water Body Identification

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WATER PROTECTION PROGRAM

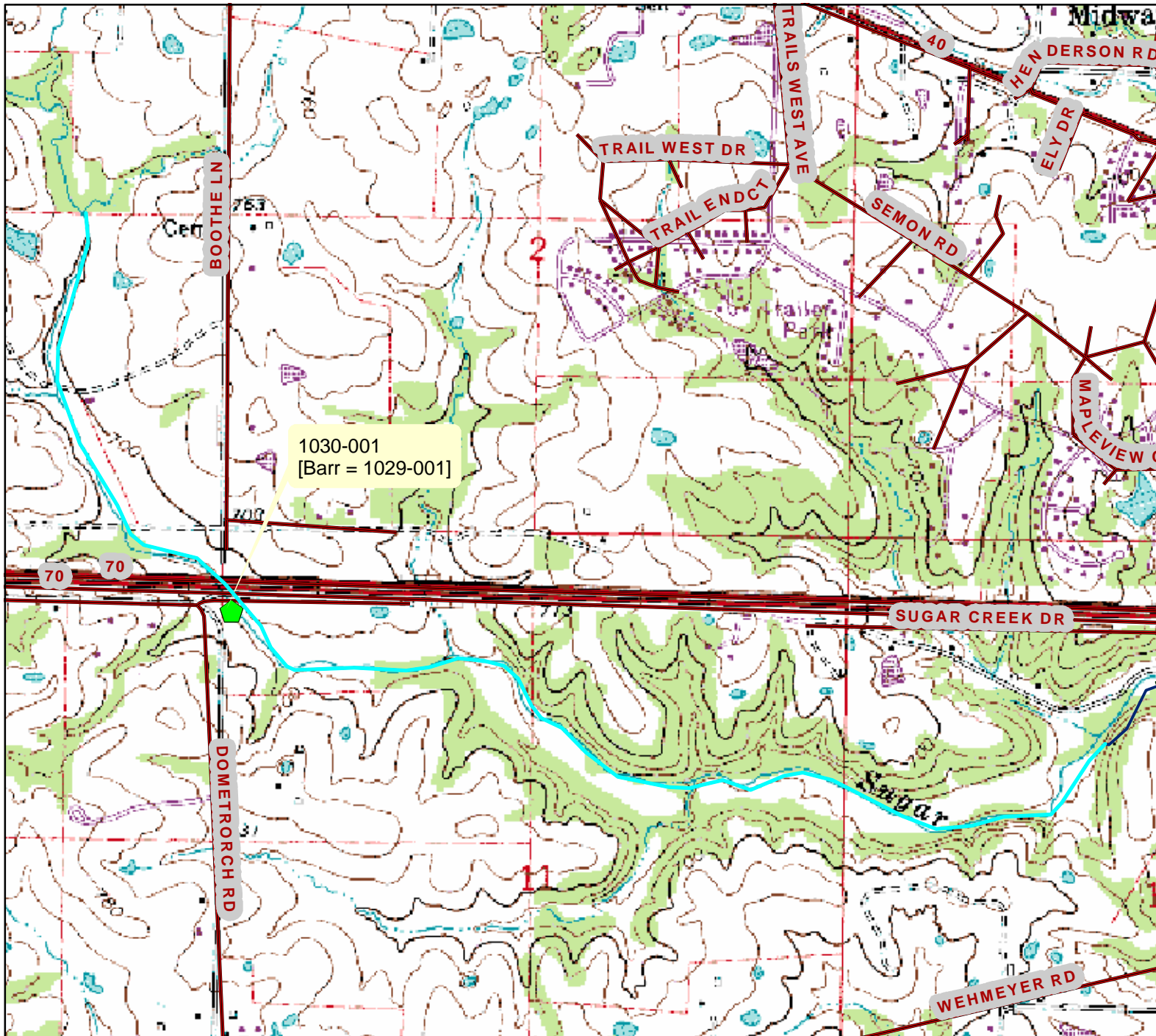
Water Body Name (from USGS 7.5' quad): Sugar Branch
8-digit HUC: 10300102
Missouri WBID #: 1029 and 1030
County: Boone
Upstream Legal Description: Interstate Highway 70 Crossing (NE 1/4 Section 10, T48N, R14W)
Downstream Legal Description: Mouth (in SE 1/4 Section 18, T48N, R13W)
Upstream Coordinates: UTM (Z15N) 545250E; 4313873N
Downstream Coordinates: UTM (Z15N) 549896E; 4310607N
Discharger Facility Name(s): Boone County Regional Sewer District-Rollingwood Subdivision Plt 2, Permit # MO0038806 Boone County Regional Sewer District-Trails West Subdivision, Permit # MO0092002 Total Restoration Company, Permit # MO0124711
Discharger Permit Number(s): See Above.
Number of Sites Evaluated: 4
Name of Surveyor and Telephone Number: Alan Fandrey (573-638-5013)
Organization: Barr Engineering Company
Position: Civil Engineer

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.




Signed: Alan Fandrey Date: June 29, 2005

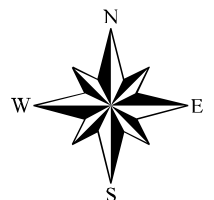
Sugar Branch (C) #1030 Boone County

HUC 8 = 10300102



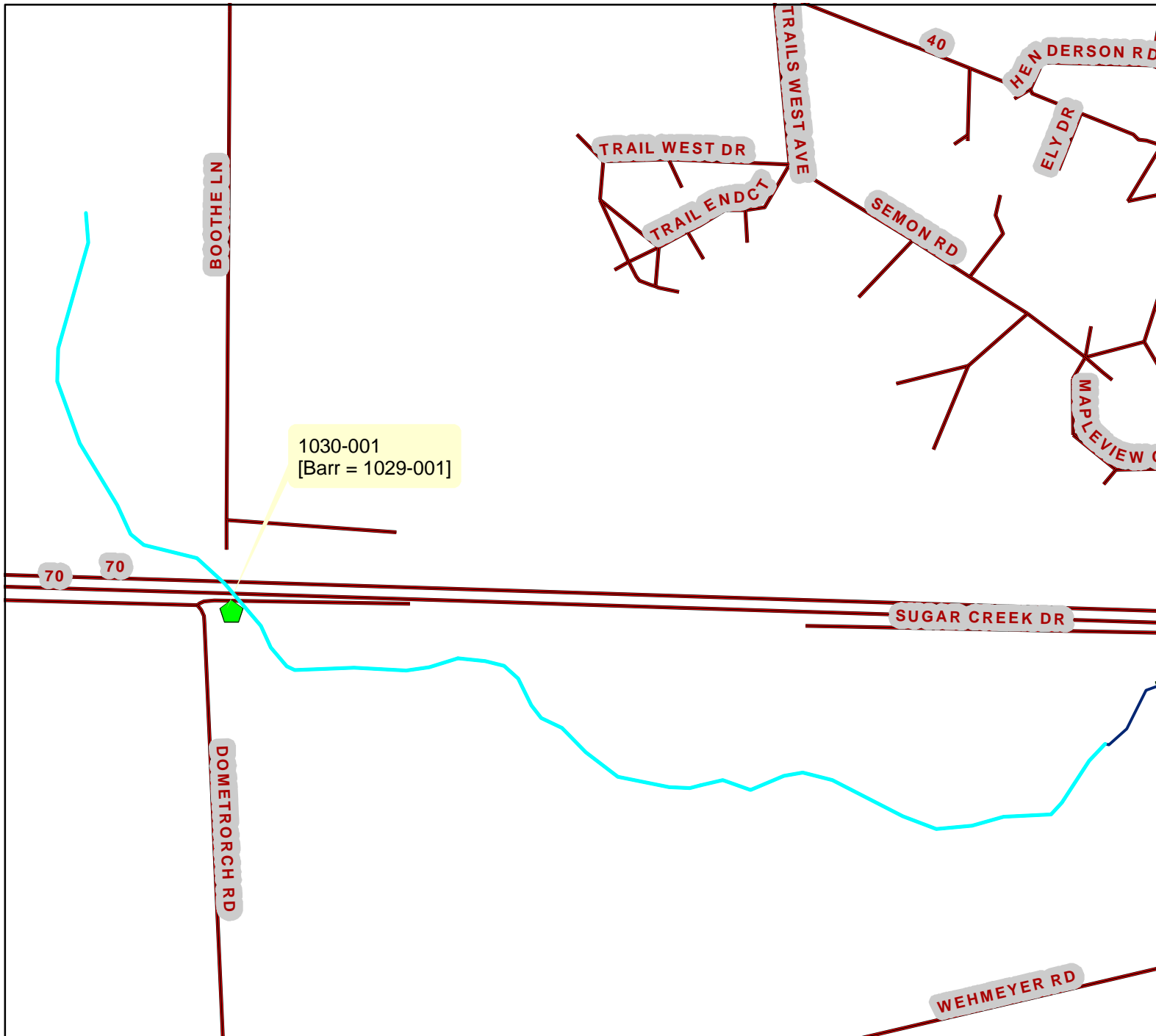
Legend

-  Roads
-  Classified Waterbodies
-  Counties



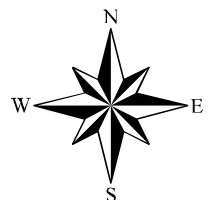
Sugar Branch (C) #1030 Boone County

HUC 8 = 10300102



Legend

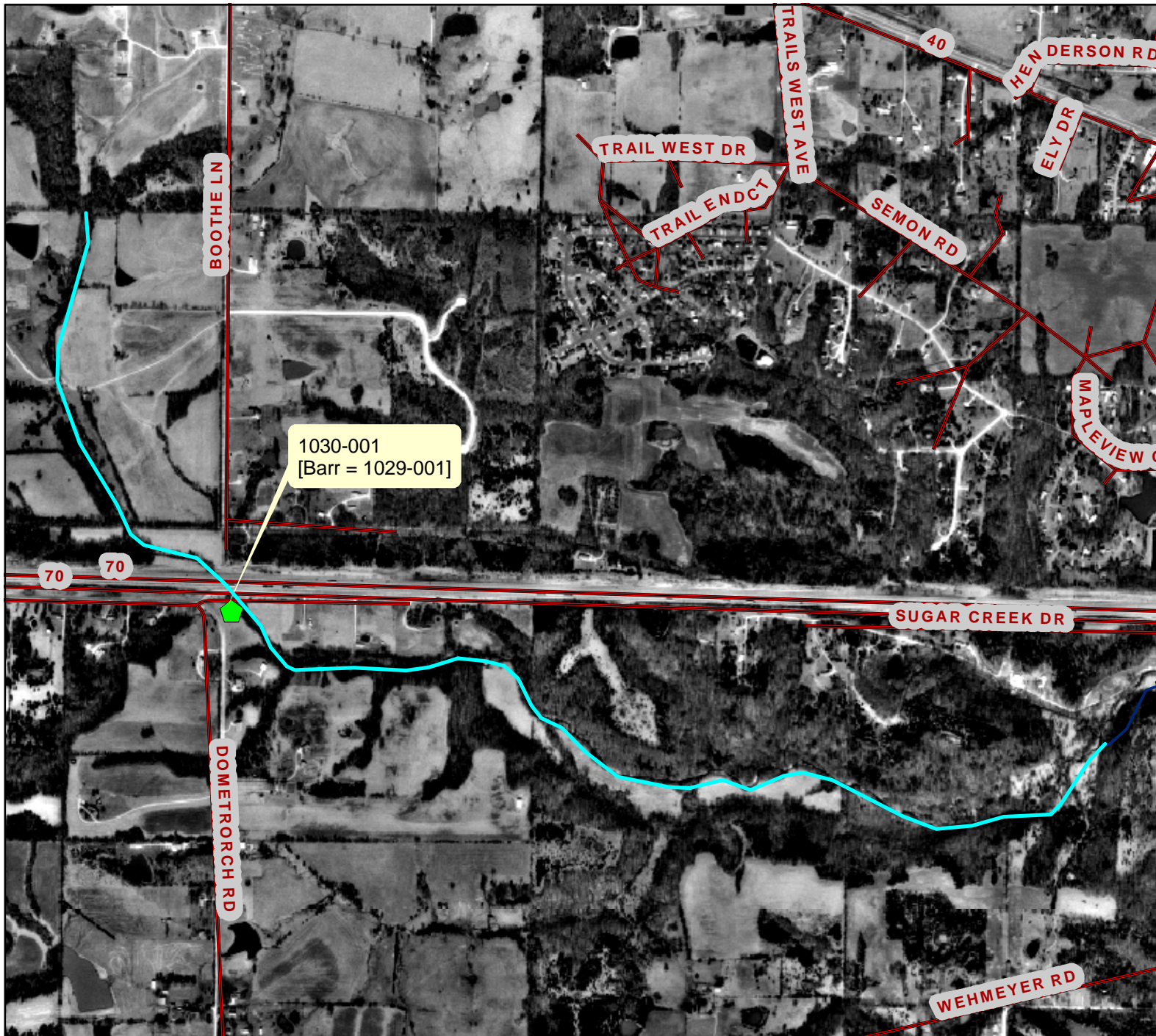
- Roads
- Classified Waterbodies
- Counties



0 0.3 0.6 1.2 Miles

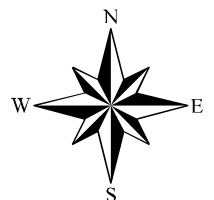
Sugar Branch (C) #1030 Boone County

HUC 8 = 10300102



Legend

- Roads
- Classified Waterbodies
- Counties



0 0.3 0.6 1.2 Miles

Field Data Sheets for Recreational Use Stream Surveys

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 1029-001	Site Location Description: Sugar Branch at crossing of South I-70 Outer road (in NE ¼ Section 10, T48N, R14W; BID 26 – Boone County)		
Site GPS Coordinates: 545250E; 4313873N			
Date & Time: 05/27/05 - 8:20 a.m.	Facility Name: See Table 2		
Personnel: Tim J. Fandrey	Permit Number: See Table 2		
Current Weather Conditions: Clear - 70s	Weather Conditions for Past 7 days: Last rain on May 22		
Photo Ids: Upstream: 1029-001US	Downstream: 1029-001DS	Other:	

Uses Observed*:

<input type="checkbox"/> Swimming	<input type="checkbox"/> Skin diving	<input type="checkbox"/> SCUBA diving	<input type="checkbox"/> Tubing	<input type="checkbox"/> Water skiing
<input type="checkbox"/> Wind surfing	<input type="checkbox"/> Kayaking	<input type="checkbox"/> Boating	<input type="checkbox"/> Wading	<input type="checkbox"/> Rafting
<input type="checkbox"/> Hunting	<input type="checkbox"/> Trapping	<input type="checkbox"/> Fishing	<input checked="" type="checkbox"/> None of the above	<input type="checkbox"/> Other:
Describe: (include number of individuals recreating, frequency of use, photo-documentation of evidence of recreational uses, etc.)				

Surrounding Conditions*: (Mark all that promote or impede recreational uses. Attach photos of evidence or unusual items of interest.)

<input type="checkbox"/> City/county parks	<input type="checkbox"/> Playgrounds	<input type="checkbox"/> MDC conservation lands	<input type="checkbox"/> Urban areas	<input type="checkbox"/> Campgrounds
<input type="checkbox"/> Boating accesses	<input type="checkbox"/> State parks	<input type="checkbox"/> National forests	<input type="checkbox"/> Nature trails	<input type="checkbox"/> Stairs/walkway
<input type="checkbox"/> No trespass sign	<input type="checkbox"/> Fence	<input type="checkbox"/> Steep slopes	<input type="checkbox"/> Other:	

Evidence of Human Use*:

<input checked="" type="checkbox"/> Roads	<input type="checkbox"/> Foot paths/prints	<input type="checkbox"/> Dock/platform	<input type="checkbox"/> Livestock Watering	<input type="checkbox"/> RV / ATV Tracks
<input type="checkbox"/> Rope swings	<input type="checkbox"/> Camping Sites	<input type="checkbox"/> Fire pit/ring	<input type="checkbox"/> NPDES Discharge	<input type="checkbox"/> Fishing Tackle
<input type="checkbox"/> Other:				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Field Data Sheets for Recreational Use Stream Surveys

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Page Two – WBID #1020-001:

Data Sheet B - Site Characterization

Stream Morphology:

Upstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 0.5	Length (ft): 3.0	Avg. Depth (ft): 0.1	Max. Depth (ft): 0.1
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec): < 0.1	

Downstream View Physical Dimensions:

<input checked="" type="checkbox"/> Riffle	Width (ft): 0.7	Length (ft): 2.0	Avg. Depth (ft): 0.1	Max. Depth (ft): 0.1
<input type="checkbox"/> Run	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input type="checkbox"/> Pool	Width (ft):	Length (ft):	Avg. Depth (ft):	Max. Depth (ft):
<input checked="" type="checkbox"/> Flow	Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated (ft ³ /sec): Same as above	

Substrate*: (These values should add up to 100%.)

% Cobble	60% Gravel	10% Sand	% Silt	30% Mud/Clay	% Bedrock
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Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site)

None

Water Characteristics*: (Mark all that apply.)

Odor:	<input type="checkbox"/> Sewage	<input type="checkbox"/> Musky	<input type="checkbox"/> Chemical	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:
Color:	<input checked="" type="checkbox"/> Clear	<input type="checkbox"/> Green	<input type="checkbox"/> Gray	<input type="checkbox"/> Milky	<input type="checkbox"/> Other:
Bottom Deposit:	<input type="checkbox"/> Sludge	<input type="checkbox"/> Solids	<input checked="" type="checkbox"/> Fine sediments	<input type="checkbox"/> None	<input type="checkbox"/> Other:
Surface Deposit:	<input type="checkbox"/> Oil	<input type="checkbox"/> Scum	<input type="checkbox"/> Foam	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Other:

Comments: Please attach additional comments (including information from interviews) to this form.

*This information is not to be used solely for removal of a recreational use designation but rather is to provide a more comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Alan Fung Date: May 27, 2005

Organization: Barr Engineering Company Position: Engineer



Photo ID 1030-001US: Upstream (Sugar Branch)



Photo ID 1030-001DS: Downstream (Sugar Branch)



Photo ID 1029-002US: Upstream (Sugar Branch)



Photo ID 1029-002DS: Downstream (Sugar Branch)



Photo ID 1029-003US: Upstream (Sugar Branch)



Photo ID 1029-003DS: Downstream (Sugar Branch)



Photo ID 1029-004US: Upstream (Sugar Branch)



Photo ID 1029-004DS: Downstream (Sugar Branch)